

# HIGH DENSITY VGA USB KVM MATRIX SWITCH

Up to four users can control 32 USB computers

## Available Options:

- **USB connector for 3M or Elo USB touch screen monitor, CAC reader, or SMART Board™ Interactive Whiteboard**
- **Extender ports for connecting up to two remote users 91 meters away via CAT5**



UNIMUX-4X8-UHDUC5 (Front and Back)

## Features & Applications

The UNIMUX™ High Density VGA USB KVM Matrix Switch allows up to four users to individually command or simultaneously share up to 32 USB computers. Access USB computers (PC, SUN, and MAC) using USB keyboards and mice, and VGA multiscan monitors.

- The High Density Switch saves rack space.
  - The 2x8, 2x16 and 4x8 switches are 1RU in height.
  - The 2x32, 4x16 and 4x32 switches are 2RU in height.
- Features NTI's patented true autoboot USB switching – all attached computers can be booted simultaneously.
- Compatible with USB computers (PC, SUN, MAC).
- Cascade UNIMUX switches off a single master switch to control up to 256 computers as if from one switch.
- Flash upgradeable.
- High quality steel construction.
- Crisp and clear 1920x1200 video resolution.
- Equipped with OSD, Liquid Crystal Display, RS232, and Ethernet.
- Dedicated microprocessors prevent computers from locking up, ensuring reliable control.
- Cabling runs are simplified with NTI's high density KVM switch cables.
- Flash upgradeable
- Optional support for USB 2.0 (low/full speed) devices, in addition to keyboards and mice, such as a 3M or Elo USB touch screen monitors, SMART Board™ Interactive Whiteboards, or CAC card readers.
  - Additional USB device must be the same for each user.
- Optional extender ports for locating remote users up to 91 meters via CAT5/5e/6 cable.
  - 2-port models feature one local user and one remote user ports.
  - 4-port models feature two local user and two remote user ports.
  - For switches with the additional USB port option, the remote user does not have access to the extra USB device.

## Specifications

### Hosts

- Female 15-pin HD connectors.
- Supports USB computers with VGA video.
- Multiplatform support: Windows 2000/XP/Vista/7, Windows Server 2000/2003/2008, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- Any legacy PS/2 or SUN computer can be connected by using a USB-PS2-R or USB-SUN-R adapter.

### Monitor

- Crisp and clear 1920x1200 resolution.
- Female 15-pin HD connectors.
- A multiscan VGA monitor is required to display the different video outputs from different platforms.
- Bandwidth is 150 MHz.

### Devices

- Female USB Type A connectors.
- Keyboard and mouse are hot-pluggable.
- Available with optional female USB Type A connectors for additional USB 2.0 (low/full speed) devices.
  - Use to connect 3M or Elo USB touch screen monitors, CAC card reader, SMART Board™ Interactive Whiteboards.
  - USB maximum data rate: 12 Mbps

### Regulatory Approvals

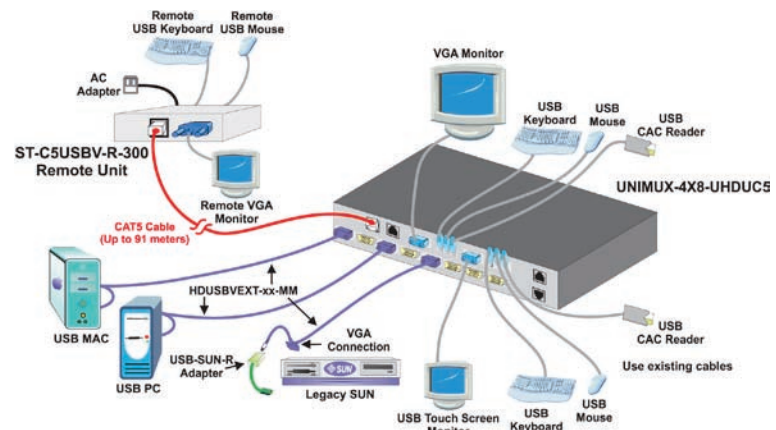
- CE, RoHS

### Power

- 110 or 220 VAC at 50 or 60 Hz via IEC connector.

Power Consumption			
Model	Watts	Model	Watts
2x8	15	4x8	20
2x16	15	4x16	25
2x32	20	4x32	40

### Configuration and Cable Illustration



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## Control Methods

### Keyboard

- Scan, Broadcast, Sharing or Command modes are available from the keyboard using hot keys.

### RS232 Control

- Female RJ45 connector.
- Baud rate 1200 to 115200.
- Address up to 15 units, all of which can be daisy-chained and controlled by one serial port.

### Commands

- CS – causes one INx/OUTx connection to occur.
- CA – causes all inputs to connect to specified output.
- RO – reads what input is connected to specified output.
- RU – reads size of matrix, reports number of inputs and number of outputs on specified switch.

### Ethernet Control

- Female RJ45 connector.
- 10/100 BaseT Ethernet interface.
- Supported protocol: Telnet.
- Control can be done over Telnet.

### Telnet

- Commands are similar to RS232 commands.
- The telnet server listens on port 2005 (configurable).
  - Port 2005 is intended for a software control type session.

### Front Panel Interface

- Locally change ports and navigate through LCD screen to execute actions.
- LCD indicates currently selected port for each user.

### On Screen Display (OSD)

- Select computers by name with the On Screen Display (OSD)
- Use keyboard or mouse to operate the switch from menus superimposed onto the monitor.
- Power status of each computer is displayed.
- View usage statistics – power-on cycles and hours of usage.
- Names can be up to 12 characters long.
- Shows names of computers on cascaded switches up to 256 ports.
- Modify the size and position of the OSD.
- Help screens assist users with the OSD.
- OS- and software-independent.
- OSD is built into the switch – no need to install additional hardware or software.

### Security

- Advanced security included.
- Each user password can be up to 15 characters long, and each switch can store up to 63 users.
- Administrator can enable or disable all security features and select which computers each user can access.
- Once security is enabled, a user or administrator must login in order to access any of the computers connected to the switch.

## Ordering Specifications

This example explains the NTI part number by breaking it down into the available options. When ordering, choose the options that you require

Number of Users      Number of CPUs      Universal KVM Switch      High Density      Optional USB Port      Optional Extender Port  
**UNIMUX -  $n$  X  $m$  - U HD U C5**

### High Density VGA USB KVM Matrix Switch Models

NTI Part #	# of Users (n)	# of CPUs (m)	Rack Units	Rack Size WxDxH (mm)	# of local user ports with extender port option	# of remote user ports with extender port option
UNIMUX-2X8-UHD	2	8	1RU	483x254x44	1	1
UNIMUX-2X16-UHD	2	16	1RU	483x254x44	1	1
UNIMUX-2X32-UHD	2	32	2RU	483x254x89	1	1
UNIMUX-4X8-UHD	4	8	1RU	483x254x44	2	2
UNIMUX-4X16-UHD	4	16	2RU	483x254x89	2	2
UNIMUX-4X32-UHD	4	32	2RU	483x254x89	2	2

### USB KVM Receiver (Remote Unit)

For use with switch with extender port option

NTI Part #	Maximum Extension (m)	Dimensions WxDxH (mm)
ST-C5USBV-R-300	91	89x79x33

### Cables

- Interface cables between your computers and the switch are required for proper operation. Use HDUSBVEXT-xx-MM to connect computers to the switch.
- Cables not included.



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